

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A component mounting sequence optimizing method in component mounting with use of a component holding head, the component holding head having a plurality of component holding members and a component image pickup section for capturing images of components held by the component holding members, wherein the component image pickup section is operable to move along an array of the component holding members,

the component mounting sequence optimizing method comprising:

comparing-determining, for each of the components held by the component holding members, a mounting preparation time on a basis of a conveyance times time required for conveyances conveyance of the component components held by the component holding members to respective a mounting position positions with and a recognition times time required for recognitions recognition of the components held by the component holding members with component by the component image pickup section by using a control device; and

comparing the determined mounting preparation times for the components held by the component holding members; and

determining a mounting sequence for the components held by the component holding head members by the control device on a basis of a result of the comparison said comparing.

2. (Currently Amended) The component mounting sequence optimizing method as claimed in claim 1, further comprising: in the comparing operation, determining

wherein, for each of the components held by the component holding members, the mounting preparation time is determined as times that are the longer ones in of the conveyance times time and the recognition times time for the components; and

wherein the component mounting sequence optimizing method further comprises determining a component having the shortest one in of the mounting preparation times as a component that is to be subsequently mounted.

3. (Currently Amended) The component mounting sequence optimizing method as claimed in claim 1, further ~~comprising: before the comparing operation;~~ comprising determining mounting conditions required for mounting of the components by the control device, wherein said determining of mounting conditions is performed prior to said determining of mounting preparation times.

4. (Currently Amended) A component mounting device comprising:
a component holding head having a plurality of component holding ~~members;~~ members
and a component image pickup section, wherein the component image section is configured to capture images of components held by the component holding members, and wherein the component image pickup section is operable to move along an array of the component holding members, wherein the components are held and mounted by the component holding head; and

a control device configured to make comparison between operable to, for each of the components held by the component holding members, determine a mounting preparation time on

a basis of a conveyance ~~times time~~ required for ~~conveyances~~ conveyance of the component
~~components held by the component holding members to a~~ respective mounting position ~~positions~~
and a recognition time ~~times~~ required for recognition ~~recognitions~~ of the component ~~components~~
~~held by the component holding members with~~ by the component image pickup section; to
compare the determined mounting preparation times for the components held by the component
holding members; and to determine a mounting sequence for the components held by the
component holding ~~head~~ members on a basis of a result of the comparison of the determined
mounting preparation times.

5. (Currently Amended) The component mounting device as claimed in claim 4,
wherein, for each of the components held by the component holding members, in the
~~comparison operation,~~ the control device determines the mounting preparation times ~~that are~~
time as the longer ones in of the conveyance time times and the recognition time times for the
components, and

wherein the control device determines a component having the shortest ~~one in~~ of the
mounting preparation times as a component that is to be subsequently mounted.

6. (Previously Presented) The component mounting device as claimed in claim 4,
wherein the control device further determines mounting conditions required for mounting of the
components.

7-9. (Canceled)

10. (Currently Amended) A recording medium which can be read by ~~computers a~~
~~computer~~ and in which a program is recorded for ~~making a~~ causing the computer to execute a
component mounting sequence optimizing method in component mounting with use of a
component holding head, the component holding head including ~~having~~ a plurality of component
holding members and a component image pickup section for capturing images of components
held by the component holding members, wherein the component image pickup section is
operable to move along an array of the component holding members, and

wherein the recording medium which has the program comprising component mounting
sequence optimizing method comprises:

~~a procedure of making comparison between~~ determining, for each of the components held
by the component holding members, a mounting preparation time on a basis of a conveyance
~~times~~ time required for conveyance ~~conveyances~~ of the ~~component~~ components held by the
~~component holding members to respective~~ to a mounting position ~~positions~~ and a recognition
~~time~~ times required for recognition ~~recognitions~~ of the ~~components held by the component~~
~~holding members with component by~~ the component image pickup section; and

comparing the determined mounting preparation times for the components held by the
component holding members; and

~~a procedure of determining a mounting sequence for the components held by the~~
~~component holding head~~ members on a basis of a result of the comparison said comparing.

11. (Currently Amended) The recording medium as claimed in claim 10, ~~the program further comprising: in the comparison procedure, a procedure of determining~~

wherein, for each of the components held by the component holding members, the mounting preparation time is determined as times that are the longer ones in of the conveyance time times and the recognition time times for the components; and

wherein the component mounting sequence optimizing method further comprises
~~a procedure of determining a component having the shortest one in of the determined mounting preparation times as a component that is to be subsequently mounted.~~

12. (Currently Amended) The recording medium as claimed in claim 10, wherein the component mounting sequence optimizing method ~~the program further comprising, before the comparison comprises procedure, a procedure of determining mounting conditions required for mounting of the components, wherein said determining of mounting conditions is performed prior to said determining of mounting preparation times.~~